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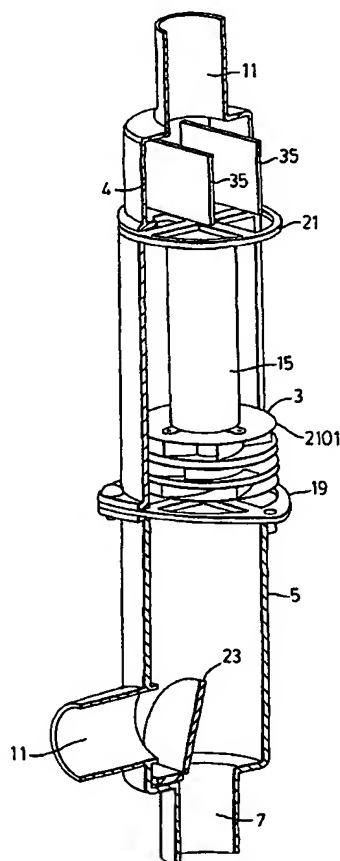
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[Continued on next page]

(54) Title: **SUCTION MOTOR FOR VACUUM CLEANER**



(57) Abstract: A cleaner (1) has a DC brushless motor (15) with stator (203) and rotor (212). Stator is mounted on a shaft and rotor is mounted inside and to a tubular body (207) about stator (203). Impeller (17) is mounted to and outside tubular body (207). The motor (15) and impeller (17) are mounted in a housing having an intake (17) and an exhaust (9). Operation of the motor and rotation of the impeller causes a partial vacuum at the intake (7) to draw air. The air is exhausted through the exhaust (9). A filter (61) prevents particles from entering the motor (15). Particles are collected in a receptacle (5) prior to the filter (61). The impeller (17) may be a squirrel cage fan, bladed fan, or centrifugal fan. A secondary exhaust (11) expels particles from the filter (61) and/or receptacle (5) by rotation of the impeller (17) in an opposite direction or by the use of a secondary DC motor and impeller. The housing (2) can fit in a cavity between conventional wall studs.

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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 56606 A (SEB SA ET AL) 11 November 1999 (1999-11-11) abstract figures	1
A	WO 97 37423 A (AEG HAUSGERAETE GMBH ET AL) 9 October 1997 (1997-10-09) page 21, line 4 - line 11 page 22, line 6 - line 13 figure 13	1
A	US 3 676 986 A (REILING J W) 18 July 1972 (1972-07-18) abstract figures	12
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 323 570 B1 (NISHIMURA HIROSHI ET AL) 27 November 2001 (2001-11-27) abstract column 4, line 23 - line 32 figure 5 -----</p>	1

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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